



**RF/Microwave cable assemblies, with a range of connectors, are available from Molex, using our Temp-Flex low loss and ultra low loss cables with outer jacket diameters of .056", .101" and .158".**

Molex's RF/Microwave cable assemblies include high performance flexible coaxial cable from our Temp-Flex operation. A wide range of connectors are utilized to provide assemblies for many different markets and applications.

The cable comes standard with silver plated conductors, FEP Dielectric, double shields and FEP jacket. The standard, Low Loss cables use solid, proprietary low loss FEP dielectric with 70% Velocity of Propagation. The Ultra Low Loss cables use a unique air core design with up to 87% Velocity of Propagation. The diameter over the shield is comparable to standard semi-rigid sizes making these cables an ideal flexible alternative.

Connector options include SMA, 2.92mm, SMP, SMPM and many others.

For more information, visit us at [www.molex.com](http://www.molex.com).

### Features and Benefits

|                                                                |                                                        |
|----------------------------------------------------------------|--------------------------------------------------------|
| Shielding Effectiveness 100 dB or better                       | Flexible alternative to semi-rigid coaxial assemblies  |
| FEP Insulation and Jacket                                      | Wide Operating Temperature Range                       |
| Low loss, solid core cable fits standard semi-rigid connectors | Wide range of connector styles for standard assemblies |

### Connector Availability Matrix

|                       | Low Loss   |            |            | Ultra Low Loss (assemblies) |          |          |
|-----------------------|------------|------------|------------|-----------------------------|----------|----------|
|                       | 047SC-2901 | 086SC-2401 | 141SC-1901 | 047-2801                    | 086-2201 | 141-1701 |
| SMPM Jack Straight    | X          | X          |            | X                           | X        |          |
| SMPM Jack Right Angle | X          | X          |            | X                           | X        |          |
| SMP Jack Straight     | X          | X          | X          | X                           | X        | X        |
| SMP Jack Right Angle  | X          | X          | X          | X                           | X        | X        |
| SMA Plug Straight     | X          | X          | X          | X                           | X        | X        |
| SMA Plug Right Angle  | X          | X          | X          | X                           | X        | X        |
| SMA Jack Straight     | X          | X          | X          | X                           | X        | X        |
| 2.92mm Plug Straight  | X          | X          | X          | X                           | X        | X        |
| 2.4mm Plug Straight   | X          | X          |            | X                           | X        |          |
| Type N Plug Straight  |            | X          | X          |                             | X        | X        |
| TNC Jack Straight     | X          | X          |            |                             |          |          |

### Temp-Flex Cable Performance Characteristics

| Cable P/N  | Impedance (Ohms) | VOP   | Capacitance | Min Static Bend Radius | Center Conductor | Insulation | Jacket | OD    | Cut Off Freq. |
|------------|------------------|-------|-------------|------------------------|------------------|------------|--------|-------|---------------|
| 047SC-2901 | 50±1             | 70%   | 29 pF/ft    | 0.20"                  | 0.0113"          | FEP        | FEP    | .056" | 112 GHz       |
| 086SC-2401 | 50±1             | 70%   | 29 pF/ft    | 0.30"                  | 0.0201"          | FEP        | FEP    | .101" | 62 GHz        |
| 141SC-1901 | 50±1             | 70%   | 29 pF/ft    | 0.50"                  | 0.036"           | FEP        | FEP    | .157" | 41 GHz        |
| 047-2801   | 50±1             | 87%   | 23.3 pF/ft  | 0.20"                  | 0.0126"          | FEP        | FEP    | .055" | 143 GHz       |
| 086-2201   | 50±1             | 86.4% | 23.6 pF/ft  | 0.38"                  | 0.0253"          | FEP        | FEP    | .101" | 72 GHz        |
| 141-1701   | 50±1             | 87%   | 23.3 pF/ft  | 0.75"                  | 0.0453"          | FEP        | FEP    | .158" | 42 GHz        |

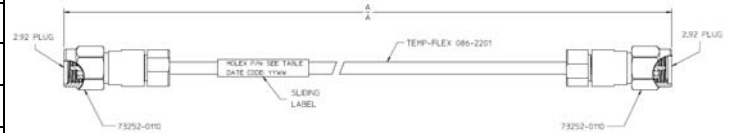
## RF/Microwave Cable Assemblies

**89762** Cable Assemblies with Temp-Flex Low Loss & Ultra Low Loss Cable



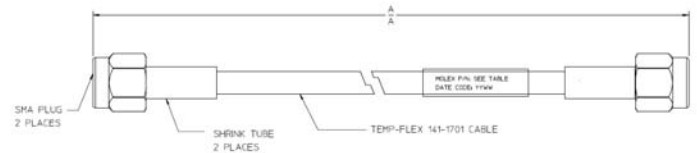
### 2.92mm Plug to Plug, 086 Ultra Low Loss cable assemblies

| Part Number | Length (inches) | Insertion Loss | VSWR               |
|-------------|-----------------|----------------|--------------------|
| 89762-1320  | 6.0             | 0.8 dB         | 1.40 max to 40 GHz |
| 89762-1321  | 9.0             | 1.2 dB         | 1.40 max to 40 GHz |
| 89762-1322  | 12.0            | 1.6 dB         | 1.40 max to 40 GHz |
| 89762-1323  | 15.0            | 2.0 dB         | 1.40 max to 40 GHz |
| 89762-1324  | 18.0            | 2.4 dB         | 1.40 max to 40 GHz |
| 89762-1325  | 120.0           | 16.0 dB        | 1.40 max to 40 GHz |



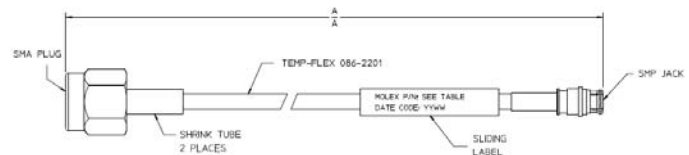
### SMA Plug to SMA Plug, 141 Ultra Low Loss cable assemblies

| Part Number | Length | Insertion Loss | VSWR               |
|-------------|--------|----------------|--------------------|
| 89762-1370  | 6.0    | 0.35 dB        | 1.35 max to 26 GHz |
| 89762-1371  | 12.0   | 0.70 dB        | 1.35 max to 26 GHz |
| 89762-1372  | 120.0  | 7.00 dB        | 1.35 max to 26 GHz |



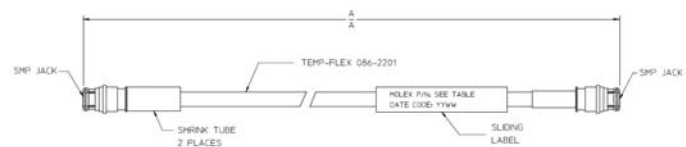
### SMA Plug to SMP Jack, 086 Ultra Low Loss cable assemblies

| Part Number | Length | Insertion Loss | VSWR               |
|-------------|--------|----------------|--------------------|
| 89762-1400  | 6.0    | 0.70 dB        | 1.50 max to 26 GHz |
| 89762-1401  | 9.0    | 1.05 dB        | 1.50 max to 26 GHz |
| 89762-1402  | 12.0   | 1.40 dB        | 1.50 max to 26 GHz |
| 89762-1403  | 120.0  | 14.0 dB        | 1.50 max to 26 GHz |

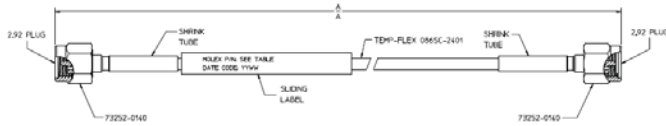


### SMP Jack to SMP Jack, 086 Ultra Low Loss cable assemblies

| Part Number | Length | Insertion Loss | VSWR               |
|-------------|--------|----------------|--------------------|
| 89762-1420  | 6.0    | 0.75 dB        | 1.70 max to 26 GHz |
| 89762-1421  | 9.0    | 1.12 dB        | 1.70 max to 26 GHz |
| 89762-1422  | 12.0   | 1.50 dB        | 1.70 max to 26 GHz |
| 89762-1423  | 120.0  | 15.0 dB        | 1.70 max to 26 GHz |

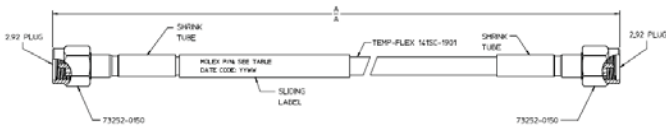


### 2.92mm Plug to Plug, 086 Low Loss cable assemblies



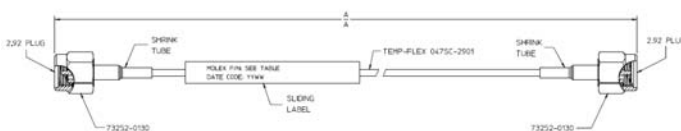
| Part Number | Length (inches) | Insertion Loss | VSWR               |
|-------------|-----------------|----------------|--------------------|
| 89762-1540  | 6.0             | 0.92 dB        | 1.50 max to 40 GHz |
| 89762-1541  | 9.0             | 1.33 dB        | 1.50 max to 40 GHz |
| 89762-1542  | 12.0            | 1.74 dB        | 1.50 max to 40 GHz |
| 89762-1543  | 15.0            | 2.15 dB        | 1.50 max to 40 GHz |
| 89762-1544  | 18.0            | 2.56 dB        | 1.50 max to 40 GHz |
| 89762-1545  | 120.0           | 16.5 dB        | 1.50 max to 40 GHz |

### 2.92mm Plug to 2.92mm Plug, 141 Low Loss cable assemblies



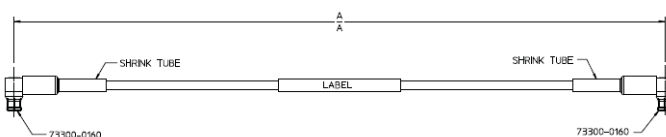
| Part Number | Length | Insertion Loss | VSWR               |
|-------------|--------|----------------|--------------------|
| 89762-1620  | 6.0    | 0.59 dB        | 1.45 max to 40 GHz |
| 89762-1621  | 9.0    | 0.84 dB        | 1.45 max to 40 GHz |
| 89762-1622  | 12.0   | 1.08 dB        | 1.45 max to 40 GHz |
| 89762-1623  | 15.0   | 1.33 dB        | 1.45 max to 40 GHz |
| 89762-1624  | 18.0   | 1.57 dB        | 1.45 max to 40 GHz |
| 89762-1625  | 120.0  | 9.9 dB         | 1.45 max to 40 GHz |

### 2.92mm Plug to 2.92mm Plug, 047 Low Loss cable assemblies



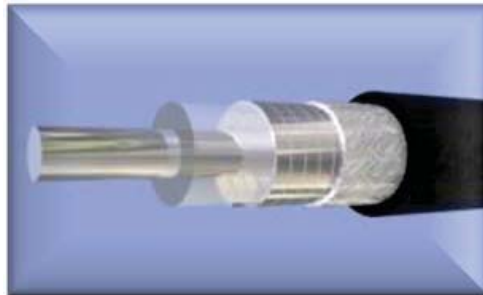
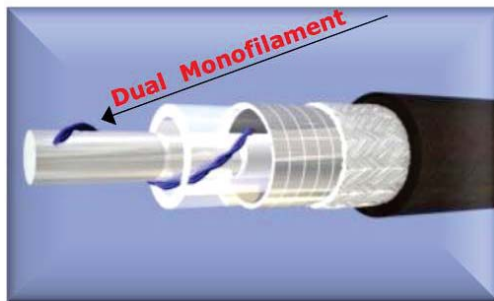
| Part Number | Length | Insertion Loss | VSWR               |
|-------------|--------|----------------|--------------------|
| 89762-1580  | 6.0    | 1.40 dB        | 1.50 max to 40 GHz |
| 89762-1581  | 9.0    | 2.05 dB        | 1.50 max to 40 GHz |
| 89762-1582  | 12.0   | 2.72 dB        | 1.50 max to 40 GHz |
| 89762-1583  | 15.0   | 3.36 dB        | 1.50 max to 40 GHz |
| 89762-1584  | 18.0   | 4.01 dB        | 1.50 max to 40 GHz |
| 89762-1585  | 120.0  | 26.2 dB        | 1.50 max to 40 GHz |

### SMMP R/A Jack to R/A SMMP Jack, 047 Low Loss cable assemblies



| Part Number | Length | Insertion Loss | VSWR               |
|-------------|--------|----------------|--------------------|
| 89762-2740  | 2.0    | 1.05 dB        | 1.45 max to 18 GHz |
| 89762-2741  | 4.0    | 1.17 dB        | 1.45 max to 18 GHz |
| 89762-2742  | 6.0    | 1.41 dB        | 1.45 max to 18 GHz |
| 89762-2743  | 12.0   | 2.73 dB        | 1.45 max to 18 GHz |
| 89762-2744  | 18.0   | 4.02 dB        | 1.45 max to 18 GHz |
| 89762-2745  | 24.0   | 26.3 dB        | 1.45 max to 18 GHz |







**Стандарт  
Электрон  
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

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